

Justin Tsai

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WORK EXPERIENCE

CPP Virtual Reality Lab

Pomona, CA

Administrator

Aug 2018 - May 2019

- Led and managed groups of students to develop VR/AR projects for presentation to industry sponsors.
- Mentored students and hosted workshops and code reviews to teach basic Unity development.
- Familiar working with the HTC Vive Pro, Oculus Rift, and Microsoft HoloLens.
- Updated the organization's web page with a more cleaner, responsive design.

SKILLS

California Polytechnic University, Pomona

Pomona, CA

Bachelor of Science, Computer Science

May 2019

GPA: 3.5, Dean's List

PROJECTS

Combination and Permutation

C#, Unity

- Collaborated in a team of three to develop a VR research project that tests the player's understanding of math concepts in an escape-room environment.
- Implemented scripts for player movement, controls, audio, and environment interactions.

Isolation

Java

- Created a player vs computer console game coded in Java. The player has to outmaneuver the computer by trapping it with previously made moves.
- Implemented a min-max algorithm utilizing alpha-beta pruning with iterative deepening that the computer uses as a heuristic to make its moves.

UCTRONICS Self-Driving Car

C++, Arduino

- Collaborated in a team of five to develop a self-driving car with line tracking and obstacle avoidance using AGILE development process.
- Worked on the script for obstacle avoidance and wrote documentation with members.

Spellbreaker

C#, Unity

- Creating a single player VR hack and slash game. The player will have to cut through a flurry of magic projectiles aimed at them using their swords.

SKILLS

- **Languages:** Java (proficient), C# (proficient), HTML (proficient), CSS (proficient), Javascript (familiar) Python (familiar), C++ (familiar)
- **Tools:** Unity, Visual Studio, Eclipse, NetBeans, Github Desktop, PuTTY, Android Studio